

Appl. No. 10/604,717
Amdt. dated January 19, 2006
Reply to Office action of October 05, 2005

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 5 1. (Currently amended) A direct-type backlight unit for a flat panel liquid crystal display, comprising:
a plurality of lamps installed within a housing;
a reflection plate installed under the plurality of lamps in the housing; and
a metal diffusion film with a plurality of apertures thereon installed above the plurality of lamps for diffusing light generated by the plurality of lamps and
10 dissipating heat from the direct-type backlight unit.
2. (Currently amended) The direct-type backlight unit of claim 1, wherein each of the plurality of lamps is a cold cathode fluorescent lamp (CCFL).
- 15 3. (Canceled)
4. (Currently amended) The direct-type backlight unit of claim 1, wherein the metal diffusion film has a thickness of less than 0.5mm.
- 20 5. (Currently amended) The direct-type backlight unit of claim 1, further ~~comprises~~ comprising a diffusion sheet located on the metal diffusion film.
6. (Currently amended) The direct-type backlight unit of claim 1, wherein at least one heat-dissipating piece is ~~disposed at~~ connected to a periphery of the metal diffusion
25 film.
7. (Currently amended) The direct-type backlight unit of claim 6, wherein the

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heat-dissipating piece is made of metal.

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8. (Currently amended) The direct-type backlight unit of claim 6, further comprising a heat exchanging means connected with the heat-dissipating piece.
9. (Currently amended) The direct-type backlight unit of claim 8, wherein the heat exchanging means is a heat pipe.
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10. (Currently amended) The direct-type backlight unit of claim 1, wherein the apertures on the metal diffusion film have different diameters/dimensions.
11. (Currently amended) The direct-type backlight unit of claim 10, wherein the diameter/dimension of the apertures directly above the lamps is smaller than the diameter/dimension of the apertures not directly above the lamps.
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12. (Currently amended) The direct-type backlight unit of claim 1, wherein the diameters/dimensions of the apertures are the same.
13. (Currently amended) The direct-type backlight unit of claim 12, wherein the metal diffusion film has a highest aperture packing density at an area directly over the lamps.
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14. (Currently amended) The direct-type backlight unit of claim 1, wherein the apertures are circular or rectangular.
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15. (Currently amended) The direct-type backlight unit of claim 1, wherein the apertures are columns and rows of through slots arranged on the metal diffusion film.

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16. (Currently amended) A direct-type backlight unit for a flat panel liquid crystal display, comprising:
a plurality of lamps installed within a housing;
5 a reflection plate installed under the plurality of lamps in the housing;
a diffusion film with a plurality of apertures thereon installed above the plurality of lamps for diffusing light generated by the plurality of lamps;
a heat-dissipating piece directly connected to the diffusion film; and
a heat exchanging means connected with the heat-dissipating piece.
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17. (Currently amended) The direct-type backlight unit of claim 16, wherein the diffusion film is made of metal and has a thickness of less than 0.5mm.
18. (Currently amended) The direct-type backlight unit of claim 16, further comprises
15 comprising a diffusion sheet located on the ~~metal~~ diffusion film.
19. (Currently amended) The direct-type backlight unit of claim 16, wherein the heat-dissipating piece is made of metal.
- 20 20. (Currently amended) The direct-type backlight unit of claim 16, wherein the heat exchanging means is a heat pipe.
21. (New) The direct-type backlight unit of claim 16, wherein the diffusion film is made of metal.
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